

**INTERFERENCE DETECTION, IDENTIFICATION,  
EXTRACTION AND REPORTING**

**ABSTRACT OF THE DISCLOSURE**

5 An adaptive notch filter (ANF) module selectively filters a received wideband  
communication signal to eliminate narrowband interference that lies within the  
frequency spectrum of the wideband communication signal. To determine the  
presence of narrowband interference, the ANF module scans various known  
narrowband channels that lie within the frequency spectrum of the wideband  
communication signal and determines signal strengths for each of the narrowband  
10 channels. The signal strengths from the narrowband channels are compared to a  
threshold that is derived from the narrowband signal strengths. Narrowband channels  
having signal strengths that are greater than the threshold are determined to have  
interference.